10/582973 AP3 Rec'd PCT/PTO 15 JUN 2000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

:

Toshikazu NAKAMURA et al.

Mail Stop: PCT

Serial No. NEW

Attorney Docket No. 2006 0825A

Filed June 15, 2006

GLYCOSYLATION-DEFICIENT HEPATOCYTE GROWTH FACTOR [Corresponding to PCT/JP2004/018719

Filed December 15, 2004]

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

	each U.S. Patent and U.S. Patent application publication;
0	each reference previously cited in the international application PCT/; and/or
[]	each reference previously cited in prior parent application Serial No

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

b. []

1b.	[] This	Information Disclosure Statement is submitted						
	Action	e events of above paragraph 1a and prior to the mailing date of a final Office or a Notice of Allowance or an action which otherwise closes prosecution in the ion, and thus:						
	(1) [] tl	ne certification of paragraph 2 below is provided, or						
	(2) [] tl	ne fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.						
1c.	[] This Information Disclosure Statement is submitted:							
		e mailing date of a final Office Action or Notice of Allowance or action which se closes prosecution in the application, and prior to payment of the issue fee, and						
lc.	the cer	the certification of paragraph 2 below is provided, and						
	the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.							
2.	It is hereby certified							
	a. []	that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or						

§1.56(c) more than three months prior to the filing of the Statement.

that no item of information contained in the Information Disclosure Statement

was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in

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- 3. [] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
- 4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
 - a. [] a full or partial English language translation submitted herewith,
 - b. [X] the International Search Report (in the English language) submitted herewith,
 - c. [X] the concise explanation contained in the specification of the present application at pages 5 and 6,
 - d. [] the concise explanation set forth in the attached English language abstract,
 - e. [X] the concise explanation set forth below or on a separate sheet attached to the reference:

JP 7-508420 corresponds to WO 93/23541.

5. [] A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Toshikazu NAKAMURA et al.

By

Registration No. 33,367

Attorney for Applicants

WMC/asd Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 June 15, 2006

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		OTHER	DOCUMENT(S) (Including Auth	or, Title, Date, Pertii	nent Pages	s, Etc.)				
	AG R. Hofmann et al., "Scatter factor is a glycoprotein but glycosylation is not required for its activity," Biochim.BiophysAct., 1992, 1120(3), pp. 343-350 AL K. Miyazawa et al., "Human hepatocyte growth factor (hHGF), mRNA, complete cds.," Database GenBank accession No.M29145, November 8, 1994 (11-8-94) Al K. M. Weidner et al., "Evidence for the identity of human scatter factor and human hepatocyte growth factor.," Proc. Natl. Acad. Sci. U.S.A., August 1991, 88(16), pp. 7001-7005										
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										ctor.,"	
	AL H. Hara et al., "Structural study of the N-linked oligosaccharies of hepatocyte growth factor by two-dimensional sugar mapping," J. Biochem. (Tokyo), 1993, Vol. 114, No. 1, pp. 76-82									nsional	
	AK P. Bellosta et al., "Cleavage of K-FGF produces a truncated molecule with increased biological activity and receptor binding affinity," The Journal of Cell Biology, Volume 121, 1993, pp. 705-13									nd	
	AL J. Aikawa et al., "Asparagine-linked glycosylation of the rat leukemia inhibitory factor expressed by simian COS cells,"Biosci. Biotechnol. Biochem., 1998, 62(7), pp. 1318-1325									n COS7	
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	BG	S. Bjoern et al., "Human plasma and recombinant factor VII., Characterization of O-glycosylations at serine residues 52 and 60 and effects of site-directed mutagenesis of serine 52 to alanine.)), The Journal of Biological Chemistry, June 1991, Vol. 226, No. 17, pp. 11051-11057								
	вн	K. M. Davis-Fleische et al., "Site-directed Mutagenesis of Heparin-binding EGF-like Growth Factor (HB-EGF): Analysis of O-glycosylation Sites and Properties," Growth Factors, 2001, Vol. 19, pp. 127-143								
	BJ	K. Fukuda et al., "Functional Analysis of Suger Chains on HGF Based no Deglycosylation," Seikagaku, August 2004, Vol. 76, No. 8, p. 1035, 4P-214								
	ВЈ	E. Adachi et al., "Functional Analysis of Sugar Chains on NK4 (HGF antagonist/angiogenesis inhibitor)," Seikagaku, August 2004, Vol. 76, No. 8, p. 1103, 4P-622								
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